

201
3.5 HW

p184 16, 17, 22-24, 26, 31, 34, 46 38

16. $P(-1, 0)$ $m = -1$

$$y = -1x + b$$

$$0 = -1(-1) + b$$

$$-1 = b$$

$$y = -x - 1$$

17. $P(5, 4)$ $m = 4$

$$y = 4x + b$$

$$4 = 4(5) + b$$

$$-16 = b$$

$$y = 4x - 16$$

22. $x = 3$

23. $P(9, -1)$ $y = -2x + 3$

$$\parallel m = -2$$

$$y = -2x + b$$

$$-1 = 0 + b$$

$$-1 = b$$

$$y = -2x - 1$$

24. $P(-7, -4)$ $y = 16$

$$\parallel$$

$$y = -4$$

26. $P(-2, 6)$ $x = -5$

$$\parallel x = -2$$

31. $P(-1, 1)$ $y = \frac{2}{3}x - 10$

$$\perp m = -\frac{3}{2}$$

$$1 = -\frac{3}{2}(-1) + b$$

$$\frac{4}{2} = b$$

$$y = -\frac{3}{2}x + \frac{4}{2}$$

34. $P(0, -5)$ $x = 20$

$$\perp y = -5$$

46. $P(-4, 3)$ $Q(4, -1)$

$$M(0, 1)$$

$$m = \frac{3 - -1}{-4 - 4} = \frac{4}{-8} = -\frac{1}{2}$$

$$m = 2$$

$$y = 2x + 1$$

38. $4x - y = -8$

$$(0, 8) \quad (-2, 0)$$

